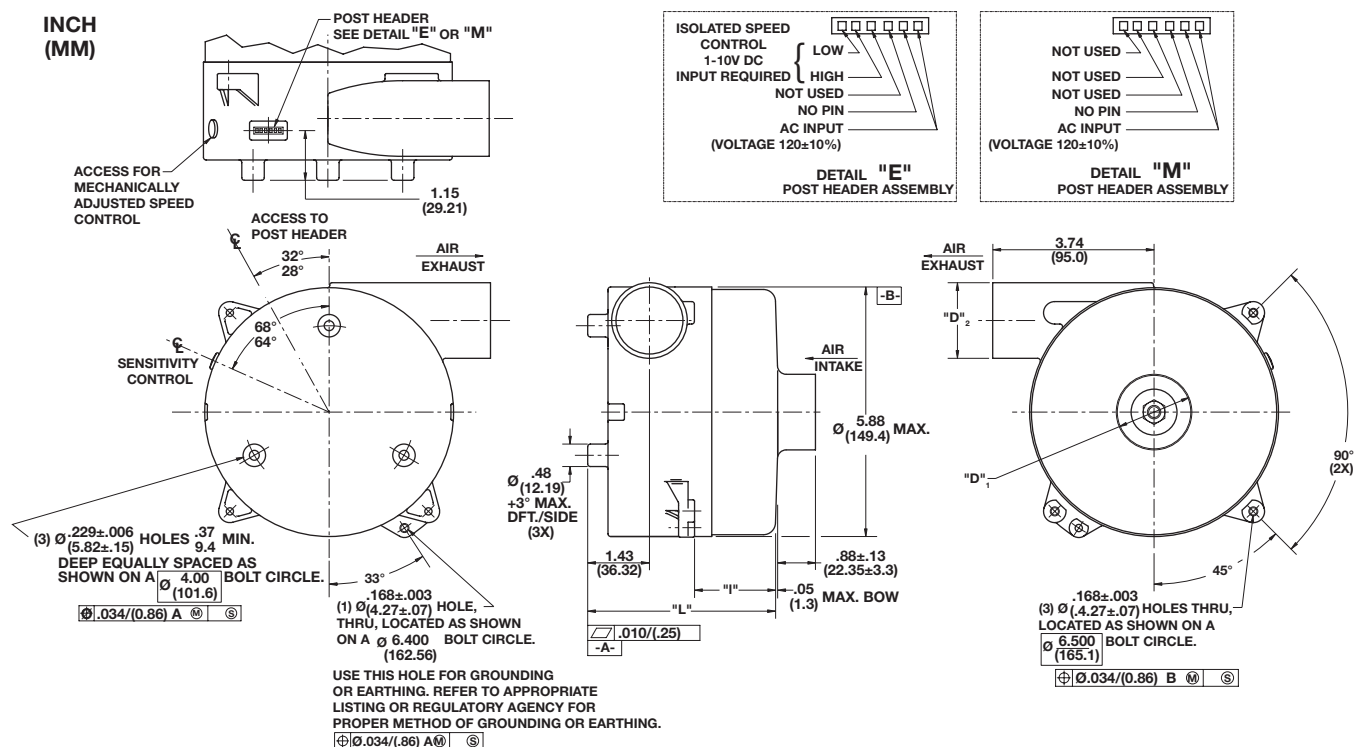


## 5.7" (145mm) BLDC Thru Flow Blower

250 Watt, 120 Volt High Flow



Blower Data	Unit of Measure	Part Number	
		High Flow	
		116644 M / 116647 E	116645 M / 116648 E
Stages	—	1	2
Vacuum, Maximum (Sealed Vacuum)	in. H <sub>2</sub> O	26.5	46.7
	mBar	65.9	116.1
Pressure, Maximum (Sealed Pressure)	in. H <sub>2</sub> O	27.3	48.1
	mBar	67.9	119.7
Flow Rate, Maximum (Open Flow)	CFM	130.5	98.2
	m <sup>3</sup> /hr	221.7	166.9
Inlet/Outlet Diameter (Dimension "D" above)	inches	1.75	1.75
	mm	44.45	44.45
Length (Dimension "I" above)	inches	0.76	1.88
	mm	19.3	47.75
Length (Dimension "L" above)	inches	3.28	4.33
	mm	83.31	109.98

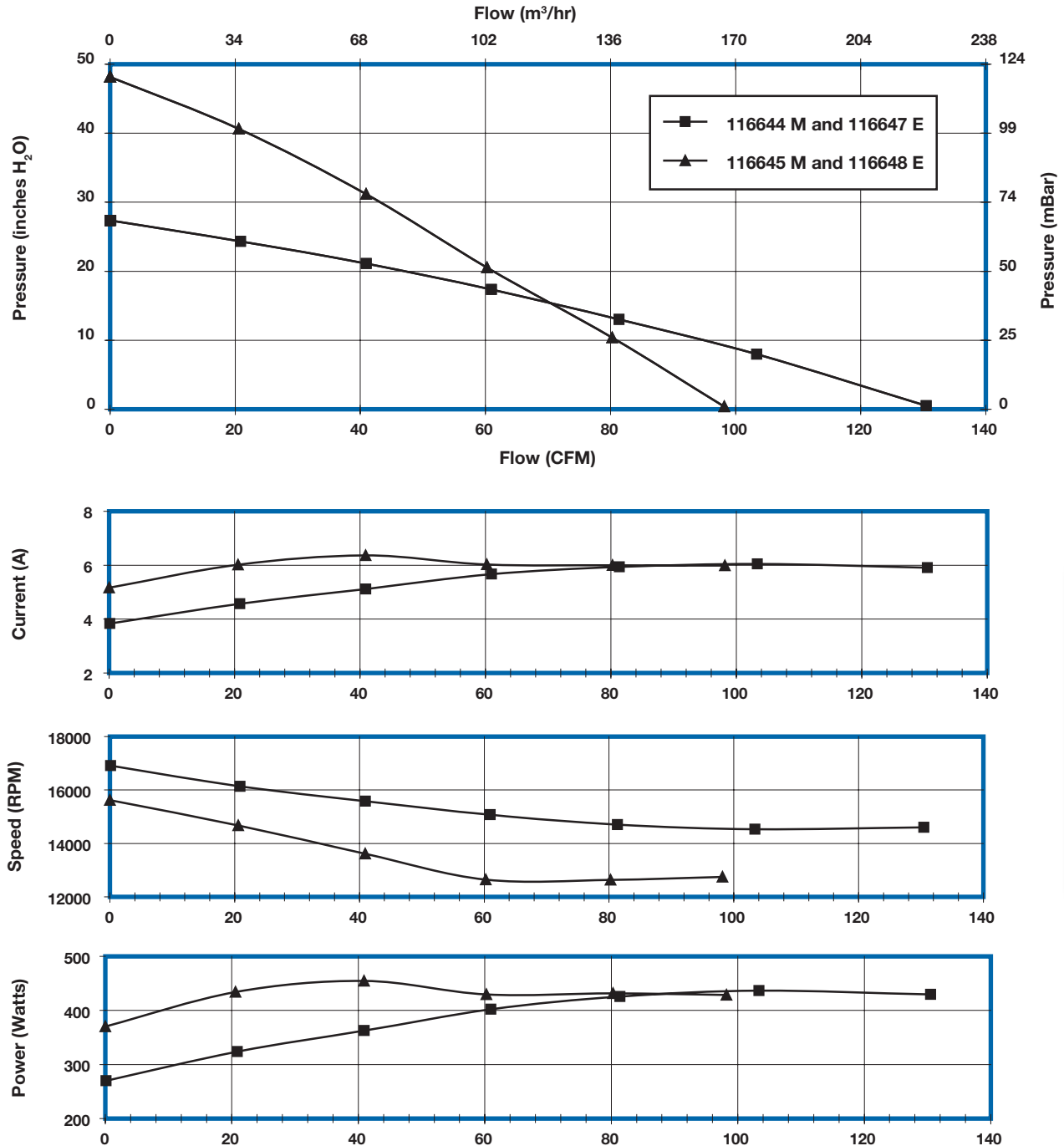
### NOTES:

- **Nominal Input Voltage:** 120 Volts AC RMS ±10%, 50/60Hz.
- **Input Current:** 5 amps AC RMS maximum.
- **Temperature:** Working Air: 0°C to 50°C; Ambient Air: 0°C to 50°C; Storage Air: -40°C to 85°C.
- **Dielectric Testing:** 1500 volts AC RMS 60Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical): Pulse Width Modulation or Analog input voltage (user supplied), 0 to 10 Volts DC nominal, 10mA maximum, 3 to 15 volts DC maximum. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).  
M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access to speed adjustment.
- **Maximum Approximate Weight:** 6 lbs.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. is qualified per UL507 under File E-94403. Canadian Standards Association is qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts, and vents must not be obstructed. Intake and exhaust must be free of grease, oil, or foreign particles. Amp housing #350809-1 (to be supplied by customer), mates with post header assembly.
- Mating harness available upon request. Refer to page 136 for specific part numbers.
- Optional IntelliGen™ controller available for customized performance.

## 5.7" (145mm) BLDC Thru Flow Blower

250 Watt, 120 Volt High Flow

### TYPICAL PERFORMANCE



HIGH-VOLTAGE  
BLDC BLOWERS

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions using AMETEK BLDC motor controllers. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Marketing and Sales.

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